

NEW JERSEY STATEWIDE SURVEILLANCE

Week 31 Report for 28 July to 02 August, 2004

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Purpose: Data from 84 New Jersey light traps contributed by county mosquito control agencies are used to calculate trends in mosquito populations for species of nuisance or health concerns.

Calculations are based on regional distributions, with emphasis on mosquito habitat and land use. Trends will allow a statewide evaluation of changing mosquito populations, in response to control and/or changes in habitat.

This is New Jersey Agricultural Experiment Station publication No. PT-08-40500-33-04 supported by Hatch funds and funding from the NJ State Mosquito Control Commission. Prepared by Lisa M. Reed and Wayne J. Crans.

Figure 1a: Map of ten regions selected for the New Jersey Surveillance Program overlaid with county borders.

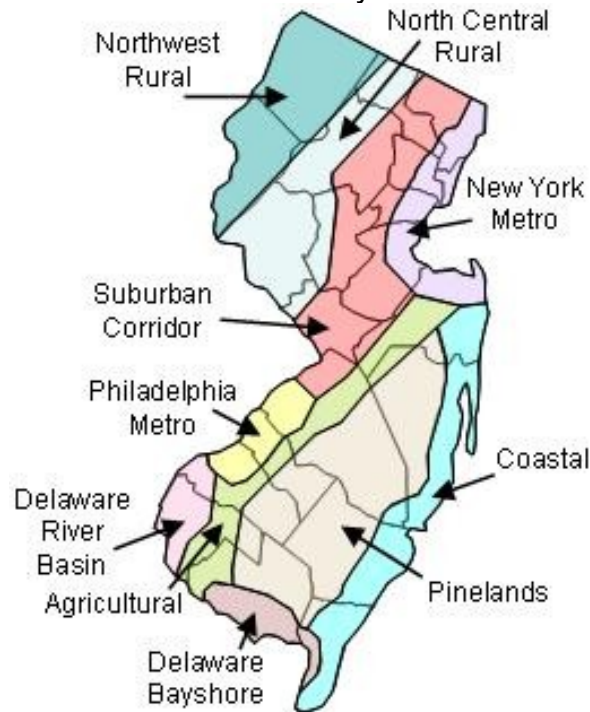


Figure 1b. Trap lat-long locations.



Summary table

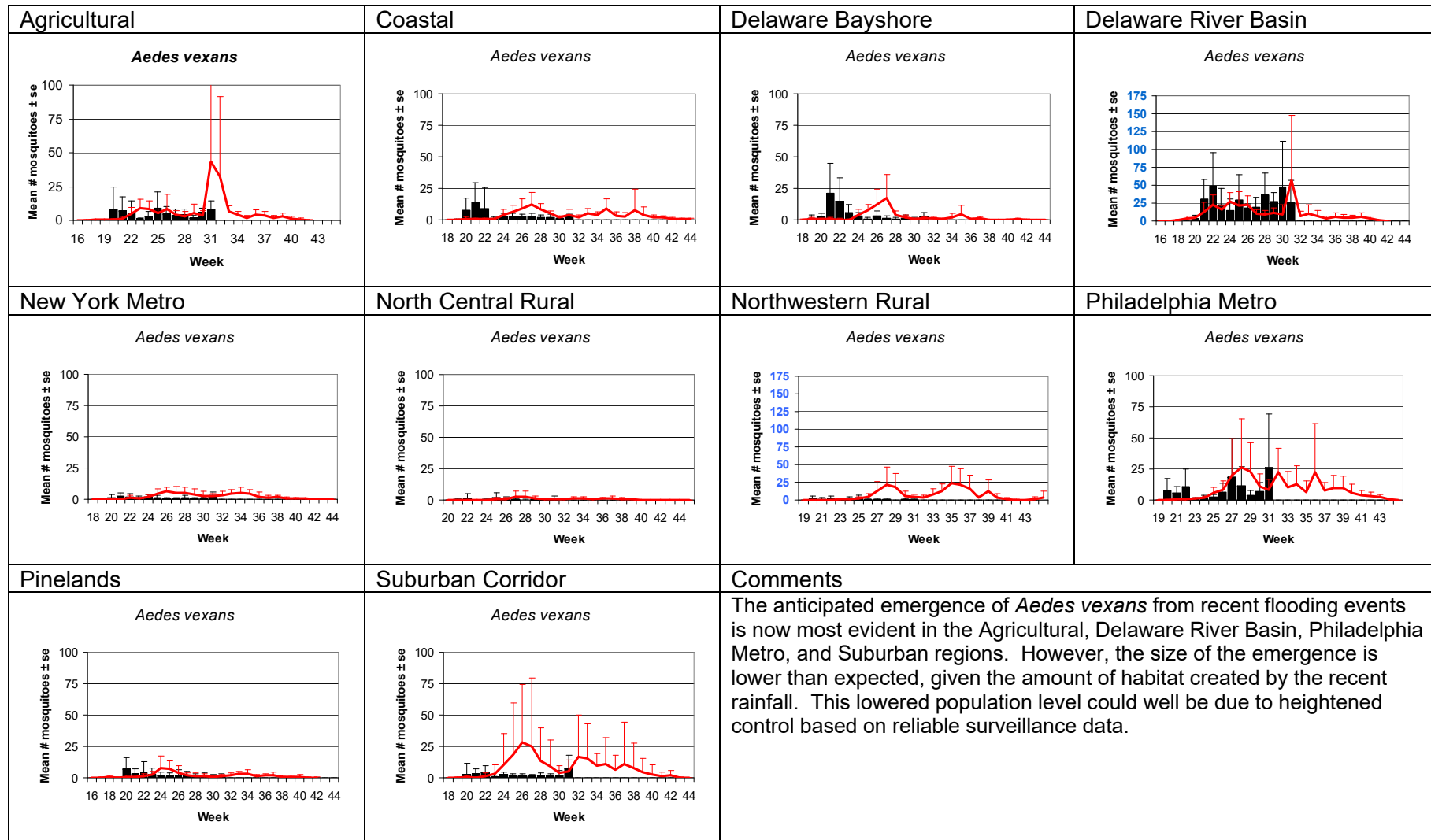
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	4.40	5.24	7.81	14.75	0.19	0.27	2.21	0.51
Coastal	0.59	4.04	1.59	6.88	1.10	0.18	29.68	60.38
Delaware Bayshore	0.79	1.44	17.98	52.00	3.14	0.43	12.57	4.93
Delaware River Basin	38.61	11.63	2.36	15.29	0.21	0.05	0.00	0.25
New York Metro	0.17	2.39	0.50	7.48	0.00	0.17	0.11	0.73
North Central Rural	0.43	0.66	0.31	1.88	0.00	0.09	0.00	0
Northwest Rural	0.24	3.36	0.67	8.37	0.00	0.17	0.00	0
Philadelphia Metro	6.97	22.35	0.02	5.63	0.31	0.15	0.03	0
Pinelands	1.08	1.47	0.82	6.28	0.69	0.46	0.17	0.08
Suburban Corridor	1.75	5.31	1.05	5.43	0.45	1.91	0.00	0.19

- Complete data not yet available.

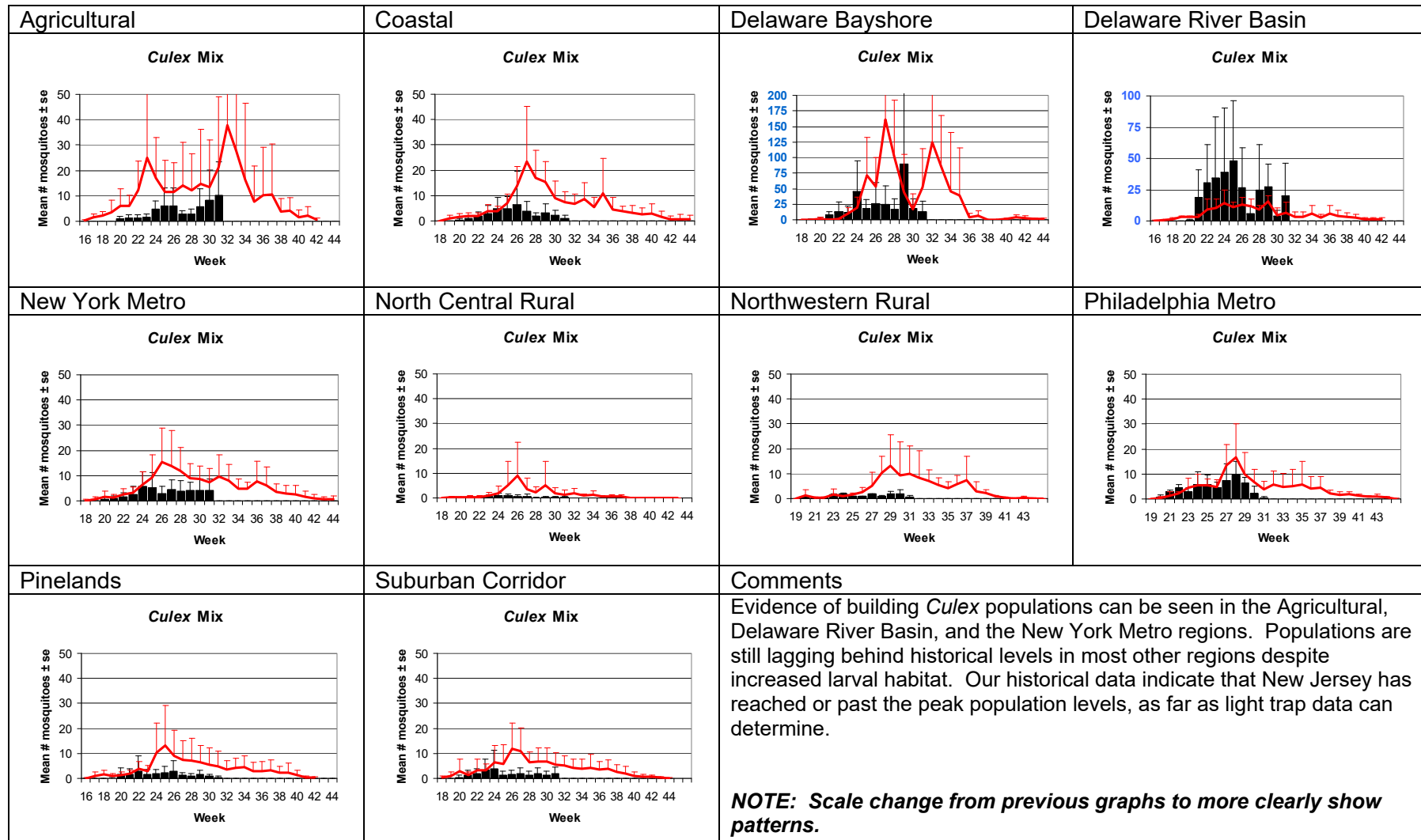
Additional Species, including *Cs. melanura* and *Ochlerotatus japonicus*. *Ochlerotatus cantator* is also featured.

15 Counties reporting (19 counties on week 30).

Aedes vexans - Fresh Floodwater Species



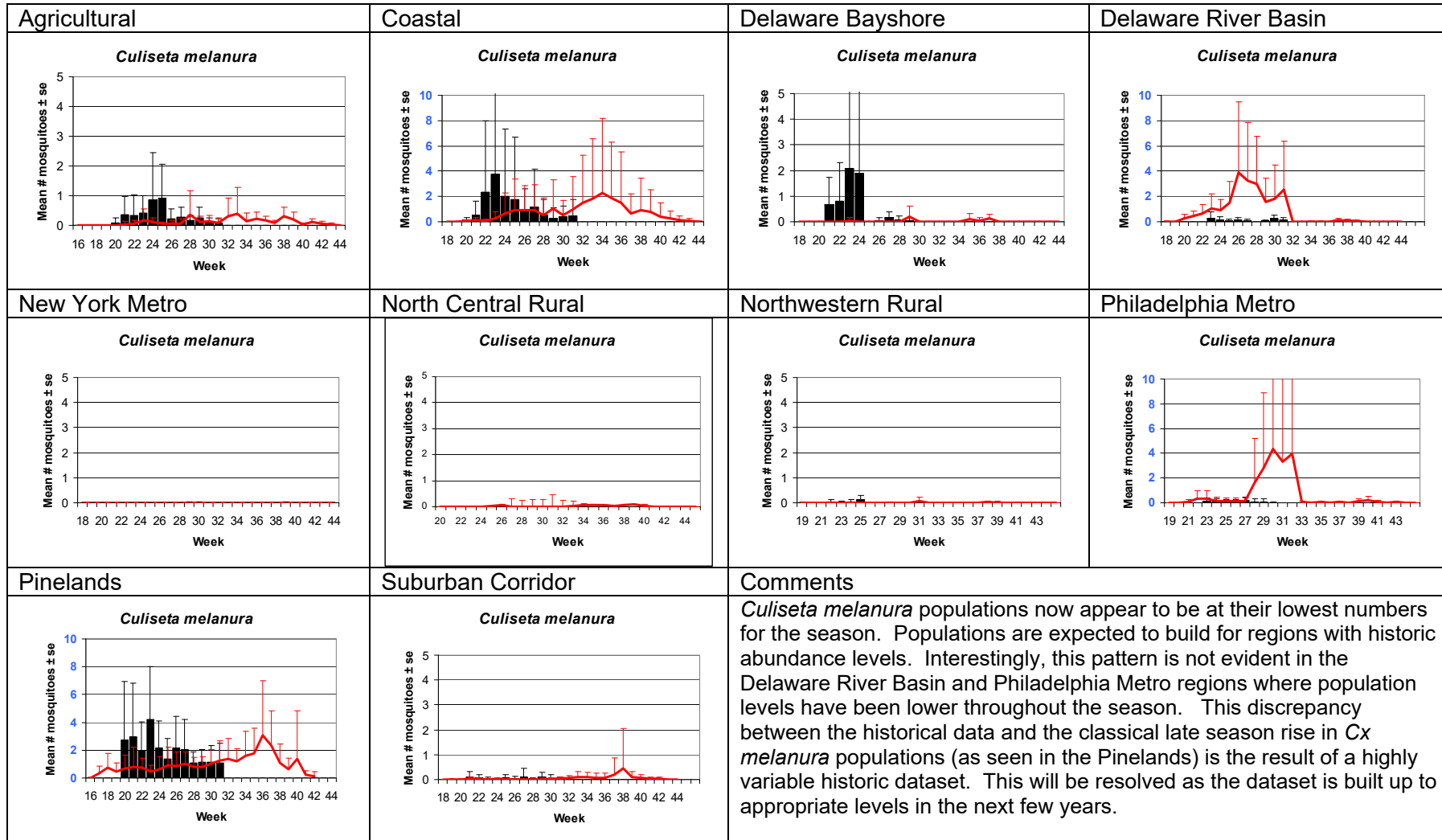
Culex Complex - Multivoltine Culex Species



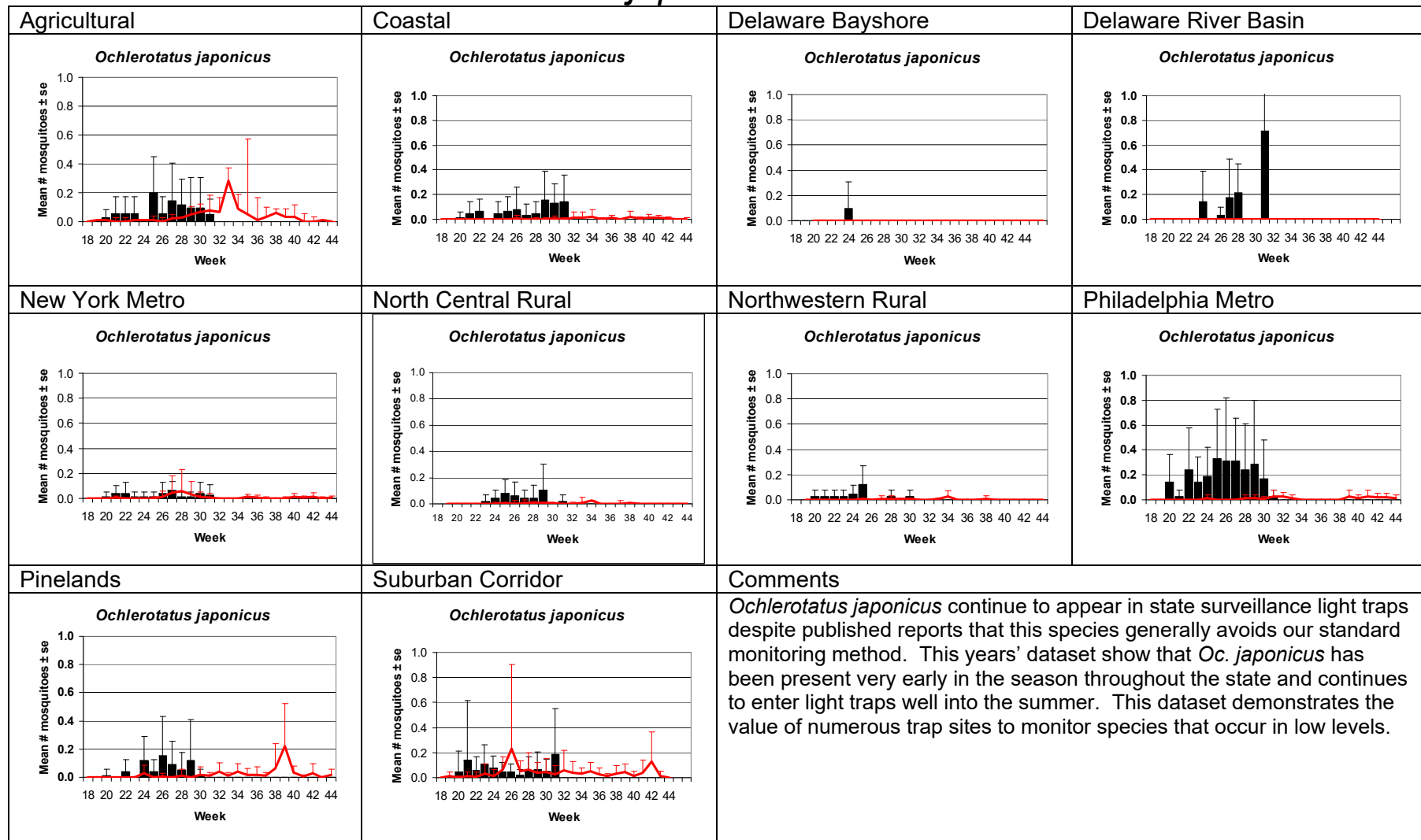
Ochlerotatus sollicitans - Salt Marsh Floodwater Species

Agricultural <i>Ochlerotatus sollicitans</i>	Coastal <i>Ochlerotatus sollicitans</i>	Delaware Bayshore <i>Ochlerotatus sollicitans</i>	Delaware River Basin <i>Ochlerotatus sollicitans</i>
New York Metro <i>Ochlerotatus sollicitans</i>	North Central Rural <i>Ochlerotatus sollicitans</i>	Northwestern Rural <i>Ochlerotatus sollicitans</i>	Philadelphia Metro <i>Ochlerotatus sollicitans</i>
Pinelands <i>Ochlerotatus sollicitans</i>	Suburban Corridor <i>Ochlerotatus sollicitans</i>	Comments The second major brood of <i>Ochlerotatus sollicitans</i> for the season has peaked in the Coastal and Delaware Bayshore regions. Light traps further inland are now increasing as they receive those mosquitoes that have migrated from the coastal habitat.	

Culiseta melanura - Miscellaneous Group

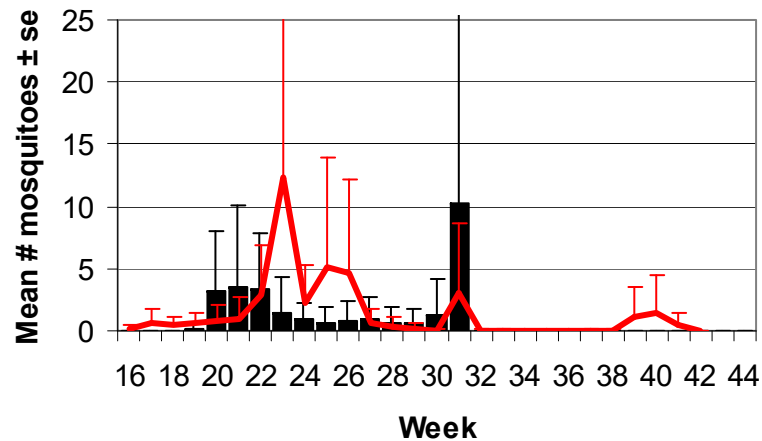


Ochlerotatus japonicus – Multivoltine Aedine



***Ochlerotatus cantator* in the Agricultural Region.** This species is an early-season saltmarsh mosquito that occasionally has a second population peak later in the season. It would appear that the recent rains in coastal areas of southern New Jersey reduced salinity and provided optimal habitat. The large numbers in the Agricultural region of this indiscriminant feeder might be cause for alarm, but studies by Turrell *et al.* suggests that *Oc. cantator* is an inefficient vector of West Nile.

Ochlerotatus cantator



Agricultural Top 10 Species to Date This Season.

